FACT SHEET

as required by LAC 33:IX.3109 for **major** LPDES facilities, for draft **Louisiana Pollutant Discharge Elimination System Permit No. LA0041751; AI 19642; PER20080001** to discharge to waters of the **State of Louisiana** as per LAC 33:IX.2311.

The **permitting authority** for the Louisiana Pollutant Discharge Elimination System (LPDES) is:

Louisiana Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

I. THE APPLICANT IS:

City of Eunice
City of Eunice Wastewater Treatment Facility
P.O. Box 1106
Eunice, LA 70535

II. PREPARED BY: Afton J. Bessix

DATE PREPARED: June 16, 2009

III. PERMIT ACTION: reissue LPDES permit LA0041751, AI 19642; PER20080001

LPDES application received: October 23, 2008

EPA has not retained enforcement authority.
LPDES permit issued: January 1, 2004
LPDES permit expired: December 31, 2008

IV. FACILITY INFORMATION:

A. The application is for the discharge of treated sanitary wastewater from a publicly owned treatment works serving the City of Eunice.

B. The permit application does not indicate the receipt of industrial wastewater.

C. The facility is located at 930 College Road in , St. Landry Parish.

D. The treatment facility consists of grit removal of primary sedimentation using clarifiers followed by biological treatment using activated sludge followed by secondary clarification. Disinfection is by chlorination.

E. Outfall 001

Discharge Location:	Latitude 30° 28' 54" North Longitude 92° 25' 32" West
Description:	treated sanitary wastewater
Design Capacity:	2.50 MGD

Type of Flow Measurement which the facility is currently using:
Combination Totalizing Meter / Continuous Recorder

V. RECEIVING WATERS:

The discharge is into an unnamed stream; thence into Bayou Mallet in segment 050103 of the Mermentau River Basin. This segment is not listed on the 303(d) list of impaired waterbodies.

The **critical low flow** (7Q10) of the receiving waterbody is 0.1 cfs.

The **hardness value** is 85.3 mg/l and the **fifteenth percentile value for TSS** is 8.45 mg/l.

The designated uses and degree of support for Segment 050103 of the Mermentau River Basin are as indicated in the table below[1/]:

Overall Degree of Support for Segment 050103	**Degree of Support of Each Use**						
Partial	Primary Contact Recreation	Secondary Contact Recreation	Propagation of Fish & Wildlife	Outstanding Natural Resource Water	Drinking Water Supply	Shell fish Propagation	Agriculture
	Full	Full	Not Supported	N/A	N/A	N/A	Full

[1/]The designated uses and degree of support for Segment 050103 of the Mermentau River Basin are as indicated in LAC 33:IX.1123.C.3, Table (3) and the 2006 Water Quality Management Plan, Water Quality Inventory Integrated Report, Appendix A, respectively.

VI. ENDANGERED SPECIES:

The receiving waterbody, Subsegment 050103 of the Mermentau River Basin, is not listed in Section II.2 of the Implementation Strategy as requiring consultation with the U. S. Fish and Wildlife Service (FWS). This strategy was submitted with a letter dated November 17, 2008 from Rieck (FWS) to Nolan (LDEQ). Therefore, in accordance with the Memorandum of Understanding between the LDEQ and the FWS, no further informal (Section 7, Endangered Species Act) consultation is required. It was determined that the issuance of the LPDES permit is not likely to have an adverse effect on any endangered or candidate species or the critical habitat. The effluent limitations established in the permit ensure protection of aquatic life and maintenance of the receiving water as aquatic habitat.

VII. HISTORIC SITES:

The discharge is from an existing facility location, which does not include an expansion beyond the existing perimeter. Therefore, there should be no potential effect to sites or properties on or eligible for listing on the National Register of Historic Places, and in accordance with the 'Memorandum of Understanding for the Protection of Historic Properties in Louisiana Regarding LPDES Permits' no consultation with the Louisiana State Historic Preservation Officer is required.

VIII. PUBLIC NOTICE:

Upon publication of the public notice, a public comment period shall begin on the date of publication and last for at least 30 days thereafter. During this period, any interested persons may submit written comments on the draft permit and may request a public hearing to clarify issues involved in the permit decision at this Office's address on the first page of the statement of basis. A request for a public hearing shall be in writing and shall state the nature of the issues proposed to be raised in the hearing.

Public notice published in:

Local newspaper of general circulation

Office of Environmental Services Public Notice Mailing List

For additional information, contact:

Ms. Afton J. Bessix
Water Permits Division
Department of Environmental Quality
Office of Environmental Services
P. O. Box 4313
Baton Rouge, Louisiana 70821-4313

IX. PROPOSED PERMIT LIMITS:

Subsegment 050103, Bayou Mallet, is not listed on LDEQ's Final 2006 303(d) List as impaired. However, subsegment 050103 was previously listed as impaired for TSS/Turbidity/Siltation, DO/Ammonia/Nutrients, and phosphorus for which the below TMDL's have been developed. The Department of Environmental Quality reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional TMDL's and/or water quality studies. The DEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as necessary to achieve compliance with water quality standards.

The following TMDL's have been established for subsegment 050103:

Bayou Mallet TMDLs for Dissolved Oxygen, Nutrients, and Ammonia

The *Bayou Mallet TMDLs for Dissolved Oxygen, Nutrients, and Ammonia,* did not require any reductions in existing limitations to comply with the criteria for DO and nutrients. However, the TMDL did establish ammonia nitrogen limitations for the City of Eunice WWTP. The limits will need to be less than 1.7 mg/l during the summer and less than 4.3 mg/l in the winter to meet EPA's guidance for ammonia toxicity criteria. Therefore, this discharge will be permitted accordingly.

TMDL for TSS, Turbidity, and Siltation for the Mermentau River Basin

As per the TMDL, "Point sources do not represent a significant source of TSS as defined in this TMDL. Point sources discharge primarily organic TSS, which does not contribute to habitat impairment resulting from sedimentation. Because the point sources are minor contributors and discharges of

organic suspended solids from point sources are already addressed by LDEQ through their permitting of point sources to maintain water quality standards for DO, the wasteload allocations for point source contributions were set to zero." Therefore, TSS limits will remain as previously permitted.

Final Effluent Limits:

OUTFALL 001

Final limits shall become effective on the effective date of the permit and expire on the expiration date of the permit.

Effluent Characteristic	Monthly Avg. (lbs./day)	Monthly Avg.	Weekly Avg.	Basis
$CBOD_5$	208.5	10 mg/l	15 mg/l	Limits are set in accordance with the Statewide Sanitary Effluent Limitations Policy (SSELP) for dischargers of this treatment type and size.
TSS	312.8	15 mg/l	23 mg/l	Since there is no numeric water quality criterion for TSS, and in accordance with the current Water Quality Management Plan, the TSS effluent limitations shall be based on a case-by-case evaluation of the treatment technology being utilized at a facility. Therefore, a Technology Based Limit has been established through Best Professional Judgement for the type of treatment technology utilized at this facility.
Ammonia-Nitrogen				Limits are set in accordance with the *Bayou Mallet TMDLs for Dissolved Oxygen, Nutrients, and Ammonia.*
Mar. – Nov.	35.4	1.7 mg/l	3.4 mg/l	
Dec. – Feb.	89.7	4.3 mg/l	8.6 mg/l	

*Concentration limits are used in accordance with LAC 33:IX.2709.F.1.b which states that mass limitations are not necessary when applicable standards and limitations are expressed in other units of measurement. LAC 33:IX.709.B references LAC 33:IX.711 which express BOD_5 and TSS in terms of concentration.

Other Effluent Limitations:

1) **Fecal Coliform**

The discharge from this facility is into a water body which has a designated use of Primary Contact Recreation. According to LAC 33:IX.1113.C.5., the fecal coliform standards for this water body are 200/100 ml and 400/100 ml. Therefore, the limits of 200/100 ml (Monthly Average) and 400/100 ml (Weekly Average) are proposed as Fecal Coliform limits in the permit. These limits are being proposed through Best Professional Judgement in order to ensure that the water body standards are not exceeded, and due to the fact that existing facilities have demonstrated an ability to comply with these limitations using present available technology.

2) **pH**

According to LAC 33:IX.3705.A.1., POTW's must treat to at least secondary levels. Therefore, in accordance with LAC 33:IX.5905.C., the pH shall not be less than 6.0 standard units nor greater than 9.0 standard units at any time.

3) **Solids and Foam**

There shall be no discharge of floating solids or visible foam in other than trace amounts in accordance with LAC 33:IX.1113.B.7.

4) **Total Residual Chlorine**

If chlorination is used to achieve the limitations on Fecal Coliform Bacteria; the effluent shall contain NO MEASURABLE Total Residual Chlorine (TRC) after disinfection and prior to disposal. Given the current constraints pertaining to chlorine analytical methods, NO MEASURABLE will be defined as less than 0.1 mg/l of chlorine. Limit set through BPJ in accordance with the previous LPDES permit.

5) **Toxicity Characteristics**

In accordance with EPA's Region 6 Post-Third Round Toxics Strategy, permits issued to treatment works treating domestic wastewater with a flow (design or expected) greater than or equal to 1 MGD shall require biomonitoring at some frequency for the life of the permit or where available data show reasonable potential to cause lethality, the permit shall require a whole effluent toxicity (WET) limit (*Permitting Guidance Document for Implementing Louisiana Surface Water Quality Standards*, April 16, 2008 VERSION 6).

Whole effluent biomonitoring is the most direct measure of potential toxicity which incorporates the effects of synergism of the effluent components and receiving stream water quality characteristics. Biomonitoring of the effluent is, therefore, required as a condition of this permit to assess potential toxicity. LAC 33:IX.1121.B.3. provides for the use of biomonitoring to monitor the effluent for protection of State waters. The biomonitoring procedures stipulated as a condition of this permit are as follows:

The permittee shall submit the results of any biomonitoring testings performed in accordance with the LPDES Permit No. LA0041751, **Biomonitoring Section** for the organisms indicated below.

TOXICITY TESTS	FREQUENCY
Chronic static renewal 7-day survival & reproduction test using Ceriodaphnia dubia	once/quarter
Chronic static renewal 7-day survival & growth test using fathead minnow (Pimephales promelas)	once/quarter

Dilution Series - The permit requires five (5) dilutions in addition to the control (0% effluent) to be used in the toxicity tests. These additional concentrations shall be 31%, 41%, 55%, 73%, and 97%. The biomonitoring critical dilution and WET limit is defined as 97% effluent. Also, LDEQ does not have a complete five year compliance history of biomonitoring testing results/DMRs on file. For this reason, it is recommended that freshwater chronic biomonitoring (with a WET limit) continue to be an effluent characteristic of Outfall 001. Results of all dilutions shall be documented in a full report according to the test method publication mentioned in the **Biomonitoring Section** under Whole Effluent Toxicity. This full report shall be submitted to the Office of Environmental Compliance as contained in the Reporting Paragraph located in the **Biomonitoring Section** of the permit.

The permit may be reopened to require effluent limits, additional testing, and/or other appropriate actions to address toxicity if biomonitoring data show actual or potential ambient toxicity to be the result of the permittee's discharge to the receiving stream or water body. Modification or revocation of the permit is subject to the provisions of LAC 33:IX.2903. Accelerated or intensified toxicity testing may be required in accordance with Section 308 of the Clean Water Act.

X. PREVIOUS PERMITS:

LPDES Permit No. LA0041751: Issued: January 1, 2004
Expired: December 31, 2008

Effluent Characteristic	Discharge Limitations		Monitoring Requirements	
	Monthly Avg.	Weekly Avg.	Measurement Frequency	Sample Type
Flow	Report	Report	Continuous	Recorder
$CBOD_5$	10 mg/l	15 mg/l	2/week	6 Hr. Composite
TSS	15 mg/l	23 mg/l	2/week	6 Hr. Composite
Ammonia-Nitrogen				
March - November	1.7 mg/l	3.4 mg/l	2/week	6 Hr. Composite
December – February	4 mg/l	8 mg/l	2/week	6 Hr. Composite
Total Residual Chlorine (TRC)	---	---	1/day	Grab
Fecal Coliform Colonies	200	400	2/week	Grab
pH (Standard Units)	---	---	2/week	Grab

The permit contains biomonitoring.
The permit contains pollution prevention language.

XI. ENFORCEMENT AND SURVEILLANCE ACTIONS:

A) Inspections

A review of the files indicates the following inspections were performed during the period beginning August 2006 and ending September 2008 for this facility.

Date: February 22, 2007
Inspector: LDEQ
Findings and/or Violations:

1. The permit is on site and up to date.
2. Records and reports were in order and available for review.
3. DMR's were consistent with self-monitoring data. Only a few minor excursions were noted during the review and they were due to mechanical breakdowns which have been fixed.
4. Effluent was light green.
5. Flow meters were within ± 10% error.
6. Samples are being taken as required. Holding times are met and samples are refrigerated properly.
7. Sludge handling is adequate to achieve permit compliance. Sludge is dried in drying beds and sent to St. Landry Parish Landfill.
8. Plant appears to be operating properly and maintained. All needed treatment units are in service.
9. Facility is accepting port-a-let, septic tank pump out and other sewage waste from Baham's Portables. Waste handling trucks dump septic sewage in a local lift station and manifest are kept by the facility staff.
10. Plant does exceed design capacity of 2.5 MGD during rain events. Flow exceedances are a result of I & I.
11. City is smoke testing, dye flooding and fixing problems. Overflows in the collection system are being reported as required.

Date: March 27, 2008
Inspector: LDEQ
Findings and/or Violations:

1. The permit effective date is January 1, 2004.
2. Effluent is clear in color.
3. Flow meter for Plant #1 had an error of -23.9%. The meter will be recalibrated.
4. Plant #2 is currently down for cleaning operations.
5. Sludge is dried in drying beds and sent to the St. Landry Parish Landfill.
6. Facility does receive waste fro Baham's Portables.
7. Plant exceeds design capacity of 2.5 MGD during rainfall events due to I & I.
8. City is smoke testing, dye flooding and fixing problems. System overflows are reported as required.
9. The monthly Discharge Monitoring Reports were reviewed for a time frame of February 1, 2007 through January 31, 2008.
10. During this time frame, the monthly average for NH_3 - N permit limit of 1.7 mg/l was exceeded four times (reported values were 1.9, 2.0, 4.4, and 2.5 mg/l).
11. The weekly average for NH_3 – N permit limit of 3.4 mg/l was exceeded three times (reported values were 4.6, 12.4, and 6.4 mg/l).

12. The weekly average fecal coliform bacteria limit of 400 col/100 ml was exceeded once (reported value was > 1,000 col/ml).
13. The causes of the exceedances included unseasonably wet weather, lift station malfunction, mechanical and electrical failures at Plant #2, blower and mixer down in Plant #2 and a chlorinator malfunction.
14. The corrective actions were working on I & I, replacing sewer pumps, repairs to Plant #2, raising dissolved oxygen level in Plant #2, and repairing the chlorinator.
15. Due to inadequate mixing, the city is planning to bid out for four new mixers in the boat clarifier.

B) Compliance and/or Administrative Orders

A review of the files indicates the following most recent enforcement actions administered against this facility:

LDEQ Issuance:

Docket #: WE-CN-08-0249
Date Issued: May 23, 2008
Findings of Fact:

1. The flow meter was not reading within the allowable ±10% of the actual flow. The meter was reading -23.9% of actual flow for Plant #1.
2. The boat clarifier of Plant # 2 consisted of inadequate mixing due to the size of the mixers. The inspector also noted that the flow exceeded the design capacity of 2.5 MGD during rain events due to Inflow and Infiltration problems in the collection system.
3. An inspection conducted by the Department on or about March 27, 2008, and a file review conducted on or about April 14, 2008, revealed several effluent violations from January 2007 through March 2008:
    a. Ammonia Nitrogen – 15 excursions
    b. Fecal Coliform – 2 excursions
    c. TSS – 1 excursion
    d. $CBOD_5$ – 1 excursion
4. Respondent failed to submit DMRs as required by LPDES permit LA0041751. Specifically, the Respondent failed to submit a quarterly biomonitoring DMR for the monitoring period of October – December 2007.
5. A file review conducted on April 14, 2008, revealed that the Respondent did cause and/or allow 14 unauthorized discharges of untreated sanitary wastewater from its treatment works to occur from October 2006 through February 2008.

Order:

1. Immediately take all steps necessary to achieve and maintain compliance with permit limitations and conditions in LPDES permit LA0041751.
2. Submit to the Enforcement Division, within 30 days of the compliance order, a written report that includes a detailed description of the circumstances surrounding the cited violations and actions taken or to be taken to achieve compliance.
3. Submit within 30 days after the receipt of the compliance order, a comprehensive plan for the expeditious elimination and prevention of such noncomplying dischargers, in the event the respondent believes that complete correction is not physically possible.

C) DMR Review

A review of the discharge monitoring reports for the period beginning August 2006 through September 2008 has revealed the following violations:

Parameter	Outfall	Period of Excursion	Permit Limit	Reported Quantity
NH_3 – N (monthly avg.)	001	January 2007	89.7 lbs/day	93.8 lbs/day
NH_3 – N (monthly avg.)			4 mg/l	5.2 mg/l
NH_3 – N (weekly avg.)			8 mg/l	9.2 mg/l
NH_3 – N (monthly avg.)	001	June 2007	1.7 mg/l	1.9 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	4.6 mg/l
NH_3 – N (monthly avg.)	001	September 2007	1.7 mg/l	2.0 mg/l
NH_3 – N (monthly avg.)	001	October 2007	35.4 lbs/day	40.2 lbs/day
NH_3 – N (monthly avg.)			1.7 mg/l	4.4 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	12.4 mg/l
NH_3 – N (monthly avg.)	001	November 2007	1.7 mg/l	2.5 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	6.4 mg/l
Fecal Coliform (weekly avg.)	001	January 2007	400/100 ml	>1,000/100 ml
NH_3 – N (monthly avg.)	001	February 2008	4.0 mg/l	6.6 mg/l
TSS (weekly avg.)	001	March 2008	23 mg/l	28 mg/l
NH_3 – N (monthly avg.)	001	March 2008	35.4 lbs/day	153.6 lbs/day
NH_3 – N (monthly avg.)			1.7 mg/l	13.7 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	18.2 mg/l
Fecal Coliform (weekly avg.)	001	March 2008	400/100ml	>1,000/100 ml
$CBOD_5$ (weekly avg)	001	March 2008	15 mg/l	19 mg/l
NH_3 – N (monthly avg.)	001	April 2008	35.4 lbs/day	87.0 lbs/day
NH_3 – N (monthly avg.)			1.7 mg/l	9.7 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	15.6 mg/l
NH_3 – N (monthly avg.)	001	May 2008	1.7 mg/l	2.8 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	5.4 mg/l
NH_3 – N (monthly avg.)	001	June 2008	1.7 mg/l	1.9 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	3.7 mg/l
NH_3 – N (monthly avg.)	001	July 2008	1.7 mg/l	2.0 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	3.9 mg/l
$CBOD_5$ (monthly avg.)	001	July 2008	10 mg/l	11 mg/l
$CBOD_5$ (weekly avg.)			15 mgl	20 mg/l
NH_3 – N (monthly avg.)	001	August 2008	1.7 mg/l	1.8 mg/l
$CBOD_5$ (monthly avg.)	001	August 2008	10 mg/l	11 mg/l
TSS (monthly avg.)	001	September 2008	15 mg/l	16 mg/l
NH_3 – N (monthly avg.)	001	September 2008	35.4 lbs/day	58.2 lbs/day
NH_3 – N (monthly avg.)			1.7 mg/l	5.1 mg/l
NH_3 – N (weekly avg.)			3.4 mg/l	8.2 mg/l
$CBOD_5$ (monthly avg.)	001	September 2008	10 mg/l	12 mg/l

XII. ADDITIONAL INFORMATION:

The Louisiana Department of Environmental Quality (LDEQ) reserves the right to impose more stringent discharge limitations and/or additional restrictions in the future to maintain the water quality integrity and the designated uses of the receiving water bodies based upon additional water quality studies and/or TMDL's. The LDEQ also reserves the right to modify or revoke and reissue this permit based upon any changes to established TMDL's for this discharge, or to accommodate for pollutant trading provisions in approved TMDL watersheds as requested by the permittee and/or as necessary to achieve compliance with water quality standards. Therefore, prior to upgrading or expanding this facility, the permittee should contact the Department to determine the status of the work being done to establish future effluent limitations and additional permit conditions.

In accordance with LAC 33:IX.2903., this permit may be modified, or alternatively, revoked and reissued, to comply with any applicable effluent standard or limitations issued or approved under sections 301(b)(2)(c) and (D); 304(b)(2); and 307(a)(2) of the Clean Water Act, if the effluent standard or limitations so issued or approved:

a) Contains different conditions or is otherwise more stringent than any effluent limitation in the permit; or

b) Controls any pollutant not limited in the permit; or

c) Requires reassessment due to change in 303(d) status of waterbody; or

d) Incorporates the results of any total maximum daily load allocation, which may be approved for the receiving water body.

Final effluent loadings (i.e. lbs/day) have been established based upon the permit limit concentrations and the design capacity of 2.5 MGD.

Effluent loadings are calculated using the following example:

BOD: 8.34 lb/gal x 2.5 MGD x 10 mg/l = 208.5 lb/day

At present, the **Monitoring Requirements, Sample Types, and Frequency of Sampling** as shown in the permit are standard for facilities of flows between 1.0 and 5.0 MGD.

Effluent Characteristics	Monitoring Requirements	
	Measurement Frequency	Sample Type
Flow	Continuous	Recorder
$CBOD_5$	2/week	6 Hr. Composite
Total Suspended Solids	2/week	6 Hr. Composite
Ammonia-Nitrogen	2/week	6 Hr. Composite
Total Residual Chlorine	1/day	Grab
Fecal Coliform Bacteria	2/week	Grab
pH	2/week	Grab
Biomonitoring		
Ceriodaphnia dubia	1/quarter	24 Hr. Composite
Pimephales promelas	1/quarter	24 Hr. Composite

Pretreatment Requirements

Based upon consultation with LDEQ pretreatment personnel, general pretreatment language will be used due to the lack of either an approved or required pretreatment program.

Pollution Prevention Requirements

The permittee shall institute or continue programs directed towards pollution prevention. The permittee shall institute or continue programs to improve the operating efficiency and extend the useful life of the facility. The permittee will complete an annual Environmental Audit Report **each year** for the life of this permit according to the schedule below. The permittee will accomplish this requirement by completing an Environmental Audit Form which has been attached to the permit. All other requirements of the Municipal Wastewater Pollution Prevention Program are contained in Part II of the permit.

The audit evaluation period is as follows:

Audit Period Begins	Audit Period Ends	Audit Report Completion Date
Effective Date of Permit	12 Months from Audit Period Beginning Date	3 Months from Audit Period Ending Date

XIII. TENTATIVE DETERMINATION:

On the basis of preliminary staff review, the Department of Environmental Quality has made a tentative determination to reissue permit for the discharge described in this Statement of Basis.

XIV. REFERENCES:

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 8, "Wasteload Allocations / Total Maximum Daily Loads and Effluent Limitations Policy," Louisiana Department of Environmental Quality, 2005.

Louisiana Water Quality Management Plan / Continuing Planning Process, Vol. 5, "Water Quality Inventory Section 305(b) Report," Louisiana Department of Environmental Quality, 1998.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Chapter 11 - "Louisiana Surface Water Quality Standards," Louisiana Department of Environmental Quality, 2004.

Louisiana Administrative Code, Title 33 - Environmental Quality, Part IX - Water Quality Regulations, Subpart 2 - "The LPDES Program," Louisiana Department of Environmental Quality, 2004.

Low-Flow Characteristics of Louisiana Streams, Water Resources Technical Report No. 22, United States Department of the Interior, Geological Survey, 1980.

Index to Surface Water Data in Louisiana, Water Resources Basic Records Report No. 17, United States Department of the Interior, Geological Survey, 1989.

LPDES Permit Application to Discharge Wastewater, City of Eunice, City of Eunice Wastewater Treatment Facility, October 23, 2008.